

The Blue Book of underwater swimming

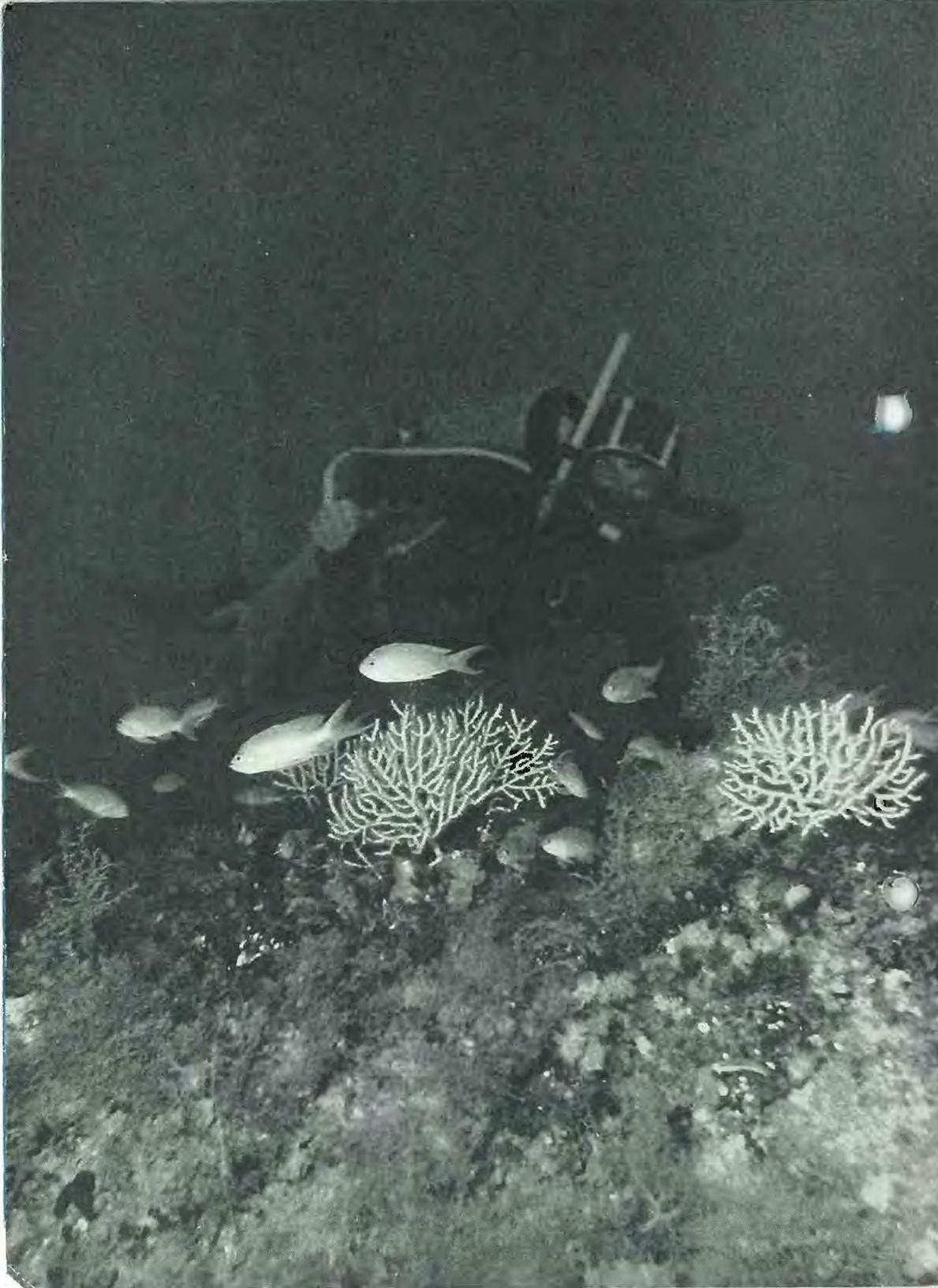
1963 SIEBE
HEINKE



The Blue Book of underwater swimming 1963

SIEBE
HEINKE

Siebe, Gorman & Co., Ltd.,
Neptune Works, Davis Road,
Chessington, Surrey.
Telephone: Lower Hook 6171



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Free as Air

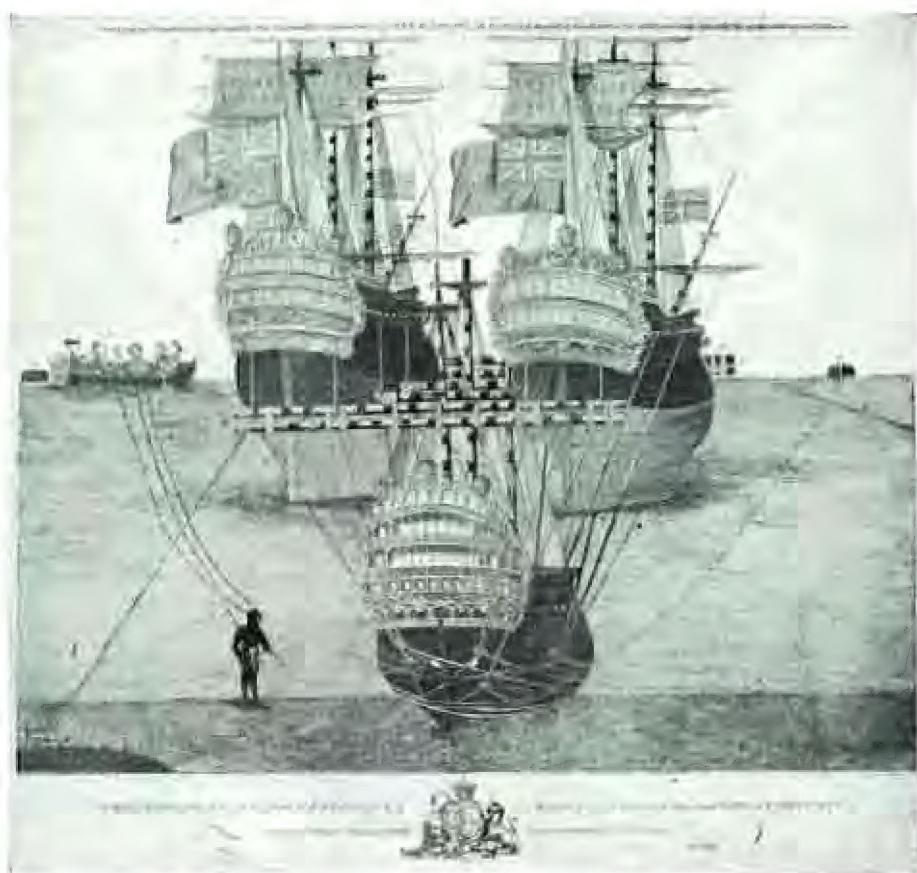
In the last decade underwater swimming has gained great popularity. The aqualung has opened up a new world to thousands. Sub-aqua clubs are springing up all over Britain and throughout the world.

Underwater swimming can mean many different things. It may mean fishing, exploring or treasure seeking, but whatever you go for you are sure to find the underwater world fascinating, mysterious, full of excitement and adventure. It is a silent, colourful, ever-changing world and underwater swimming has been described as the most exciting sport of all.

This catalogue provides a brief guide for beginners and useful information for experts. It presents one of the finest ranges of underwater equipment available anywhere for amateur or professional use.

An early attempt to raise the wreck of the 'Royal George' sunk off Spithead in 1782, Augustus Siebe's original 'closed' diving dress was used extensively by the Royal Engineers for work on the wreck in August 1840.

From a Lithograph by H. Kahler.



Siebe Heinke



In 1961 Siebe Gorman and C. E. Heinke, two of the world's greatest names in underwater equipment, pooled their resources and experience to manufacture diving equipment under the name Siebe Heinke.

Both companies had been concerned with diving for almost 150 years and had individually developed the first diving suits at the beginning of the nineteenth century. After many years of competitive trading, the union of the two companies has resulted in an extremely comprehensive range of equipment, which includes everything you could possibly need for activities under water. The search for improvement continues, new equipment is constantly being developed, and existing products brought up-to-date.

All equipment receives the rigorous testing and the attention to detail which are so vital in a field where lives depend on safety and efficiency.

Designed to combine the existing range of products of both companies, the catalogue also introduces some new developments resulting from the merger. While maintaining a variety of demand valves, it has been the policy to standardize on cylinders, harnesses, pressure gauges and breathing tubes. It is aimed to provide the customer with a complete but easily chosen range of underwater equipment which is safe, efficient and comfortable.



What equipment will you need

For as little as five pounds you can buy a pair of swim fins, a face mask and a snorkel tube, and spend many enjoyable hours 'skin diving'. 'Skin diving' consists of swimming underwater, using very basic equipment and relying only on a deep breath for an air supply. It is a sport in itself and one which is becoming increasingly popular every year, and, incidentally, if it is underwater spear-fishing you want, some people consider that it is unsportsmanlike to dive in any other way. Many divers become extremely proficient at 'skin diving' and are capable of holding their breath for three or four minutes.

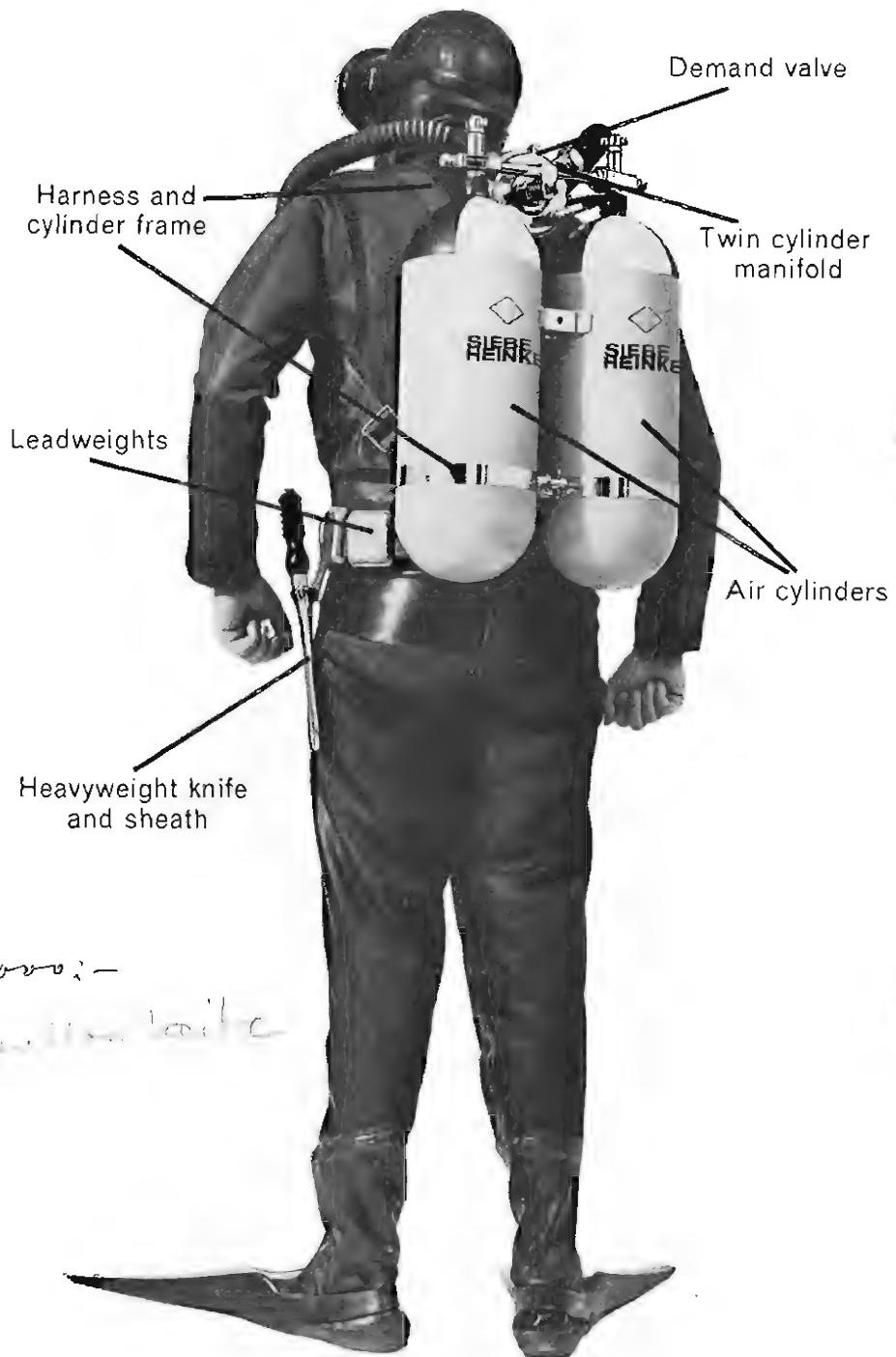
'Skin diving' is probably the best introduction you can have to underwater swimming. However, to really appreciate the wonderful feeling of freedom and relaxation associated with the silent underwater world it is necessary to progress a step further and investigate the possibilities of remaining underwater for much longer periods without surfacing.

The aqualung, using compressed air, is the obvious answer and this catalogue contains everything the aqualung enthusiast could possibly require. Using an aqualung is relatively simple, but to avoid accidents it is necessary to adopt certain precautions and standards of behaviour. In the United Kingdom the organisation which has done most to promote the sport of underwater swimming is the British Sub-Aqua Club. The Club has drawn up a code of behaviour and a series of proficiency tests for underwater swimming. Anyone wishing to use aqualungs would be unwise not to take these tests. Having completed the course, you should then be fully competent to use an aqualung safely, efficiently, and to the best advantage. Branches of the Club exist in most large towns and before purchasing aqualung equipment it is advisable to contact your local branch and obtain details of membership. (*A list of branches is included at the back of this catalogue.*) For a very moderate subscription you can use the full facilities of the Club, receive expert instruction, and above all, have a lot of fun.

Assuming that you already possess the necessary items for skin diving, that is, the mask, fins and snorkel, the next step is to choose an aqualung. Several makes of aqualung are on the market and your experience with the B.S.A.C. will probably have helped to influence your decision. Most serious underwater swimmers in this country acknowledge that Siebe Heinke equipment is the most advanced, the most reliable and the safest.

Initially the air capacity of the cylinders will determine the amount of time that it is possible to remain underwater, but ultimately endurance relies on the depth at which you swim. 1,100 litre and 1,400 litre cylinders have been popular for many





years, but Siebe Heinke have now decided to standardize their cylinders. The standard Siebe Heinke cylinder will, in future, have a capacity of 1,875 litres (approx. 65 cu. ft.).

The next step is to choose the valve which controls the supply of air from the cylinder to the lungs. This is known as a demand valve. It supplies the wearer with as much air as he or she requires with each inhalation and shuts it off as soon as the wearer exhales. Siebe Heinke manufacture three basic types of demand valve - the 'Mistral', the 'Merlin' and the 'Mercury' mouth-held demand valve. Each have their own characteristics and the final choice will depend largely on personal experience, individual preference and the size of your pocket.

Other essential equipment includes a harness to strap the aqualung on the back, a weight belt and weights, a knife, and a depth gauge. In the temperate waters surrounding the British Isles a suit is usually recommended for additional comfort.

These are the basic essentials, but like most sports it is possible to expand your equipment with various accessories and refinements as you become more familiar with the techniques and adopt individual routines. We hope that this catalogue will provide you with everything that you require for underwater activities.

A list of major sports retailers carrying Siebe Heinke stocks has been included at the back of the catalogue and should you find any difficulty in obtaining equipment contact the manufacturers of Siebe Heinke equipment at the following address:
SIEBE GORMAN & CO. LTD., Davis Road, Chessington, Surrey. Telephone:
Lower Hook 6171.

Catalogue of Equipment

Aqualungs

Complete aqualung sets are not illustrated in this section because it is possible to use various combinations of demand valves and harnesses to build up an aqualung. Both single and twin cylinder sets are available and where necessary the cylinder manifolds, for linking two cylinders to make a twin set, have been illustrated. When ordering a complete aqualung it is necessary to state exact requirements regarding demand valves, breathing tubes, etc.

The 'Mistral' Demand Valve

The 'Mistral' demand valve is designed to meet the need for a regulator which combines high efficiency with simplicity and ease of maintenance.

If operates on the single stage system, allowing air to enter the breathing chamber direct from the cylinder without previous reduction; this leads to a minimum number of moving parts.

Constructed throughout of heavily chromed brass and high quality rubber, the valve is proof against corrosion or tropical deterioration.

'Mistral' valves are fitted with universal cylinder attachments with swivel clamps to fit all standard cylinder valves.

n. 225:-

18002. The popular 'Mistral' demand valve (*illustrated below*) with breathing tubes, Ref. No. 18352. Alternative tubes (18356) are available and are shown in connection with the underwater Vista face mask.



The 'Merlin' Demand Valve

The 'Merlin' valve is the most advanced demand valve available for amateur or professional use. The body is robustly constructed of non-ferrous materials, and all components are precision engineered.

One of the new design features is the built-in Mechanical Air Reserve Valve air-line lung system. This combines in a single valve, all the advantages of a low pressure air-line lung for shallow water or training dives with a high-pressure two-stage demand valve and a mechanical air reserve system for deep free diving.

The Mechanical Air Reserve Valve system retains a reserve of air in the cylinders at approximately 300 p.s.i. Operation of a remote control on the diver's harness withdraws the release pin allowing the reserve air to pass freely to the first stage reduction valve, giving an audible warning to the diver.

The air-line lung attachment allows low pressure air from the surface to be supplied to the valve by means of a diving air pipe.

310/- 2/B1749. (right) The 'Merlin' demand valve complete with reserve valve assembly and breathing tubes, Ref No. 18356.

285/- 2/B1856. 'Merlin' demand valve less 45/- reserve valve assembly and with breathing tubes 2/B1732.

E2/30286. (below) Pressure gauge. Designed for use with all Siebe Heinke aqua-lungs and capable of reading pressures up to 200 atmospheres.

The Mercury Demand Valve

E2/30808. (below) The 'Mercury' mouth-held demand valve manufactured in plastic—the latest addition to the Siebe Heinke range. It is sold as a unit, complete with first stage reducing valve and intermediate pressure hose.



17958/9. Pressure gauge tube and harness clip. 50/-

2/B1607. Pressure gauge tube. 15/-





260:- BV.10/B1. (above left) 1875 litre compressed air cylinder with cylinder valve. This is now the standard cylinder used on all Siebe Heinke aqualungs. It has a working pressure of 165 atmospheres and will fit all frames previously supplied with Siebe Gorman and Heinke aqualungs. Diameter of cylinder 7in. (18cm.).

18097. Nylon harness for single cylinder /15/- aqualung with frame.

18098. Nylon harness for twin-cylinder /160/- aqualung with frame.

2/B1167. (above right) Sponge neoprene harness for a twin-cylinder aqualung. /180/-

E3/836. Twin-cylinder manifold. 60/-

2/B1418. (below right) Twin - cylinder /10/- 'Clubman' manifold.

Servicing of Siebe Heinke Demand Valves

Messrs. Colins and Chambers Ltd., 98a, West India Dock Road, London, E.14, have been appointed sole U.K. spares and servicing engineers for Siebe Heinke aqualung demand valves. All enquiries should be sent direct to the above address.

Note: World-wide servicing is available on all Siebe Heinke demand valves.





2/B1567. (left) Twin-cylinder manifold unit with H.P. coupler tube.

18222. Conversion kit—to convert a single-cylinder 'Mistral' aqualung into a twin-cylinder.

Note. All cylinder manifolds can be used with the new 1875 litre cylinders for converting a single-cylinder aqualung to a twin.

45. 18352. Breathing tube assembly with non-return valves in mouthpiece, and including nuts and liners (Siebe Gorman thread) on ends of tubes for use with the 'Mistral' demand valve, Ref. No. 18002.

2/B1732. Breathing tube assembly with non-return valve in the exhalation tube and in the mouthpiece, 2 clips, 2 screws. (recommended for use with the 'Merlin' demand valves. Ref. Nos. 2/B1749 - 2/B1856).



18340. (left) The underwater Vista full-face mask with the Siebe Gorman mouth-piece cock. Illustrated with breathing tubes, Ref. No. 18356. *(120)*

Surface Demand and Airline Equipment

Surface demand equipment is becoming increasingly popular among those divers who wish to remain submerged for longer periods than are permitted with an aqualung and who have no requirement for being completely self-contained. The 'Merlin' demand valves illustrated earlier (Ref. No. 2/B1856) are designed to take a surface demand attachment, but the Mk. II surface demand valve has been specifically developed for this purpose. The breathing tube assemblies and Vista face mask are as for aqualungs.

2/B1857. Surface airline attachment for 'Merlin' demand valve including non-return valve and $\frac{1}{2}$ in. B.S.P. airline connection.

2/B1737. Webbing harness for use when the 'Merlin' demand valve is used as a surface demand valve.

15358. Nylon harness with hose clip for use with surface demand equipment.

10618. Double male connector with $\frac{1}{2}$ in. B.S.P. thread for joining lengths of air hose (Ref. No. 15345.)

15345. 50 feet (18 metres) length of diving airhose fitted with $\frac{1}{2}$ in. B.S.P. thread connections at each end.

2/P1093. (below) Pressure reducing valve for large capacity storage cylinder, fitted with two gauges 3000/100 p.s.i., airline connections and $\frac{1}{2}$ in. B.S.P. male right-handed thread with a bullnose seating for high pressure storage cylinder connection



E3/40527. (above left) 'Mercury' mouth-held surface demand valve with non-return valve hose connector.

15306. (left) The Mk. II surface demand valve assembly which can be used with a mouthpiece or with the underwater Vista mask. Breathing tubes (Ref. Nos. 18352 or 18356).

Ancillary Equipment



E3/40528. Two-way cylinder charging/decanting manifold assembly with exhaust valve, pressure gauge, 4 feet of copper coupling pipe and a cylinder charging clamp. This manifold is used to decant compressed air from large storage cylinders to the smaller aqua-lung cylinders.

2/P1419. Three-way cylinder charging/decanting manifold

2/P1437. Four-way cylinder charging/decanting manifold (as above).

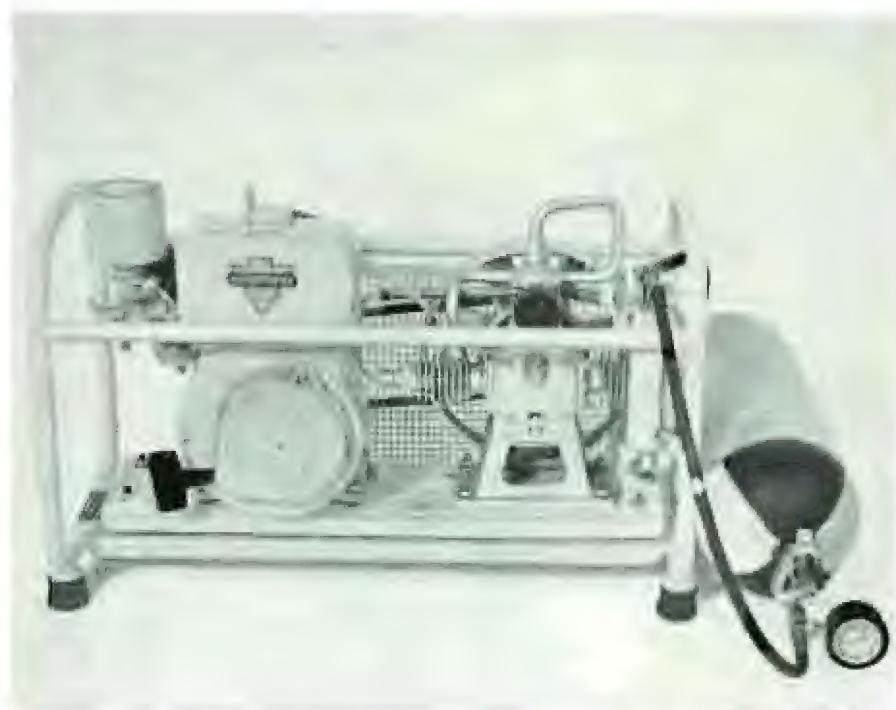
2/P1438. Five-way cylinder charging/decanting manifold

2/P1439. Six-way cylinder charging/decanting manifold

E3/40526. Single charging manifold with $\frac{1}{2}$ in. male bullnose high-pressure cylinder connection, 4 ft. (1.2 metres) of copper pipe, pressure gauge and cylinder charging clamp.



18135. (right) Combined charging and pressure gauge adapter.



9700. (above) Three-stage, high pressure air compressor, mounted in a carrier frame with a belt guard. Powered by a Clinton two-stroke petrol engine.

The compressor has a charging rate of one cubic foot per minute (0.0283 cu. metres/min.) and a maximum working pressure of 3,000 lb. per sq. in. (200 kgs./sq. cm.). The new 1875 litre cylinder can therefore be fully charged in approximately one hour and the 1400 litre cylinder in 40 minutes. Also included are an air filter, flexible pipes, pressure gauge and cylinder charging clamp.

Weighing only 60 lbs. the unit is easily portable and will fit in the boot of any modern car.

Three pressure settings are available 120, 200 and 165 atmospheres, and when ordering it is necessary to specify which pressure setting is required. Type 50/120: working pressure is 120 atmospheres. Type 50/200: working pressure is 200 atmospheres. Type 50/165: working pressure is 165 atmospheres.

9740A. Compressor only, complete with air filter, flexible pipes, pressure gauge and charging clamp.



2/B1593. (left) Diver's marker buoy. Mast assembly, sinking weight and diver's flag.

2/B1598. (below right) Float with shot-line, seizing band with sinking weight and search line with clip shackle.

2/B1686. Diver's flag.

2/P1641. Car badge: underwater swimmer highlighted on blue background, surmounted by letters S.C.U.B.A.; finished in polished chrome.

2/P1644. Car badge: helmet and corselet in polished chrome with front and side glasses highlighted in blue. Diver's pipe.

3/M89. (bottom left) Diving mascot models: model frogman, single cylinder; model frogman, twin cylinder; model diver in Siebe Gorman standard equipment; model diver in lightweight harbour unit.

2849. Terylene safety line 100 ft. (30.5 metres) long with eye-splice at each end.

2850. Terylene safety line 200 ft. (61 metres) long.



Suits and Underwear

The large range of Siebe Gorman and Heinke suits has now been condensed to provide 'dry' suits only. The 'Dip' suit introduced successfully last year has now been joined by a new 'dry' suit known as the 'Frogman' suit.

The 'Frogman' Suit

The 'Frogman' suit is designed to give the underwater swimmer complete protection when diving in cold or polluted waters.

It is manufactured in two alternative materials—stockinette proofed with black rubber, or heavy duty proofed fawn twill. The suit is tough, flexible, resistant to abrasion and impervious to oil, sunlight and ozone. The soles of the feet are toughened to provide a hard surface if walking is necessary.

The suit consists of a separate jacket and trousers made watertight at the waist by a roll seal held in place by a rubber cummerbund.

The jacket can be fitted with a hood and/or neck seal. Ankle seals can be provided for the trousers instead of built-in boots.

The 'Frogman' suit can be worn next to the skin or, in cold waters, over a suit of woollens.

£30/- 20601. (right) 'Frogman' dry suit with braces, hood and neck seal.





20502. 'Frogman' dry suit with braces and neck-seal only. ~~310:-~~
20503. 'Frogman' heavy duty two-piece swimsuit with braces, hood and neck seal. Manufactured in fawn 'Salvus' twill. ~~400:-~~
20504. (Jeff) 'Frogman' heavy duty two-piece swimsuit with braces and neck-seal only. ~~400:-~~

Personal Fittings.

Please specify size when ordering.

	Small	Medium	Large Short	Large
Height .	5' 3" - 5' 9"	5' 7" - 5' 11"	5' 7" - 5' 11"	5' 9" - 6' 3"
Chest .	32" - 36"	36" - 42"	42" - 46"	42" - 46"
Inside Leg .	29" - 31"	32" - 34"	32" - 34"	35" - 37"

The 'Dip' Suit

The Siebe Gorman 'Dip' suit is a two-piece underwater dry suit with the unique feature of being entirely seamless. Attractively styled in yellow and black dipped latex, it is glazed on both sides for slip-on dressing. The suit consists of a separate jacket and footed trousers, made watertight at the waist by a roll seal held firmly in position by a latex cummerbund. For complete protection a hood and extra booties are also available.

Completely watertight, the suit is light and flexible and does not impair the swimmer's movements in any way. The latex used has a very high tear resistance and is impervious to strong sunlight and ozone. The elasticity will allow the swimmer to wear woollens underneath the suit when diving in cold waters. Designed primarily for use by the diver, the suit is readily adaptable for use by dinghy sailors, fishermen, canoeists and all-the-year-round water skiers. Available in three sizes.



210/- 11900/1/2. (right) 'Dip' suit comprising jacket, trousers and cummerbund.

11912/3. Hoods for 'Dip' suit available 15/- in small, medium and large sizes in black and yellow.

11917. Booties for 'Dip' suit.
 11919. (bottom left) Reinforced booties for 'Dip' suit.
 2659. Woollen Guernseys.
 2660. Woollen pants.

2657. Inner woollen stockings, short.
 2658. Outer woollen stockings, long.
 3770. (bottom right) Rubber lace-up shallow water diving boots.
 3772. Spare lead inner soles for shallow water diving boots.



Personal Fittings.

Please specify size when ordering

	Small	Medium	Large
Height	5' 5" - 5' 9"	5' 7" - 6' 0"	5' 10" - 6' 1"
Sleeve (cuff to cuff, arms out-stretched)	62"	64"	66"
Chest	35" - 37"	36" - 38"	38" - 42"
Waist	30" - 33"	32" - 35"	33" - 37"
Seat	36" - 39"	39" - 42"	41" - 44"
Inside Leg	29"	31"	31"

Hans Hass Dive Masks

- 2/B1159. (below left) Hans Hass 'Senior' dive mask, a large size mask in black rubber. (Available in one size only).

- 2/B1615. (below) Hans Hass 'Sea Hunter' dive mask (available in one size only). A medium size mask in blue rubber.

- 2/B1289. (below) Single bend snorkel tube, for use in skin and aqua-lung diving.



Series 'A' Equipment - Underwater Accessories

Weights and Weight Belts.

2/B/1168. (below) Reinforced rubber weight belt with quick-release buckle.

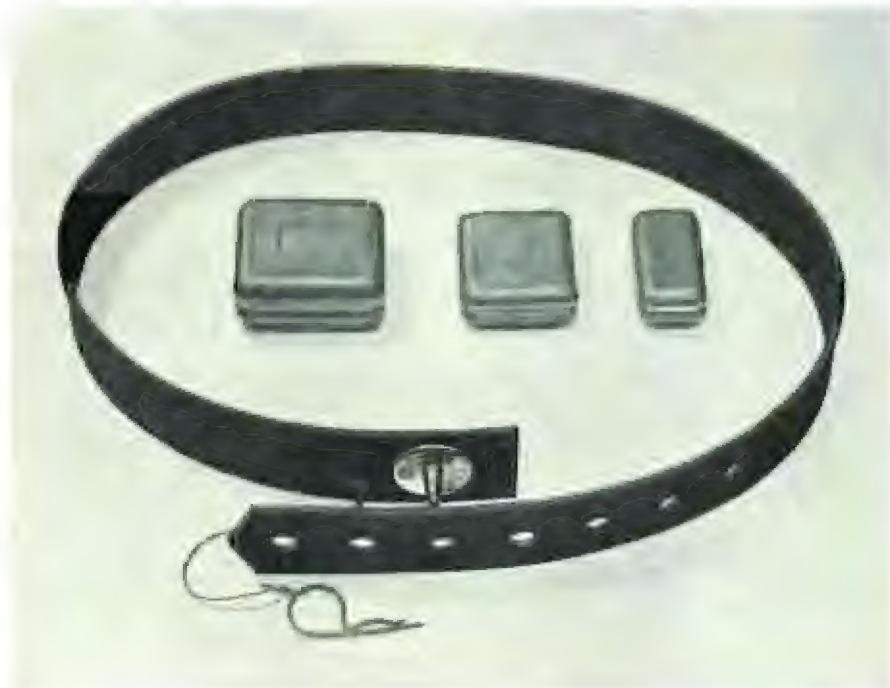
2/B902. Lead weights, 1 lb.

2/B1248. Lead weights, 2 lb.

2/B1286. Lead weights, 4 lb.

2/B1168A. Webbing weight belt with quick-release fastener and adjustable buckle.

Sole Wholesale Distributors to the Sports Trade
Messrs. John Jacques & Son Ltd., White Horse
Road, Thornton Heath, Surrey.



18127. Nose-clips.

2840. (right) The 'Fathometer' wrist depth gauge. An accurate depth gauge is an essential piece of equipment for the aqualung diver.

2/B1059. Wrist compass.

2/B1135. Waterproof rubber gloves (in one size only).

Plastic decompression calculators.



Hans Hass Swim Fins

The following face masks and swim fins are approved and recommended by Hans Hass, the eminent underwater explorer.

2/B1617. (below left) 'Explorer' swim fins in black rubber. Large blade area for added power and adjustable heel straps for comfortable fitting. Available in sizes 8, 9 and 10.



2/B1802. Hans Hass 'Sea Hunter' swim fins in blue rubber with a curved blade and adjustable heel straps. Available in sizes, 8, 9 and 10.



7947. (right) Admiralty pattern swim fin with an oblique blade, approved by the Admiralty for use by Royal Navy frogmen. A suitable fin for serious work underwater. Available in one size only.



7947B. Admiralty pattern swim fin with adjustable heel straps.

7947A. Separate heel straps for Admiralty fins.

Underwater Knives

An essential accessory for all underwater swimmers.

- 15/- 2/B1354. Stainless steel double-edged knife with a rubber handle.
15/- 2/B1898. Stainless steel double-edged knife with a cork handle (floatable).
10/- 2/B1346. Metal sheath fitted with belt attachment, for use with either 2B/1354 or 2/B1898

- 2/B1233. Heavyweight double-edged diver's knife, with chromed and polished fittings.
2/B1897. Heavyweight sheath for knife
2/B1233. Chromed and polished.



Books available

- 'Mistral' Manual.
'Marlin' Manual.
Deep Diving and Submarine Operations
by Sir Robert H. Davis.
Decompression of Divers.
The New Science of Skin and S.C.U.B.A.
Diving.
The British Sub-Aqua Club 'Diving
Manual'.

Where to Buy

1. UNITED KINGDOM

Siebe Heinke underwater equipment can be seen at any of the following shops.

Birmingham

Oswald Bailey Ltd., 35 Moor Street, Birmingham.

Bournemouth

Oswald Bailey Ltd., 34 Commercial Road, Bournemouth.

Edinburgh

Lillywhites Ltd., Princes Street, Edinburgh.

Exeter

John Webber Ltd., High Street, Exeter.

Glasgow

Lumley's Ltd., 80/82 Sauchiehall Street, Glasgow.

London

Lillywhites Ltd., Piccadilly, London, W.1.

Norwich

Geo. Pilch Ltd., The Sports Emporium, 1 Brigg Street, Norwich.

Scarborough

York Army & Navy Stores, 64 St. Thomas Street, Scarborough.

Stoke-on-Trent

J. G. Fenn Ltd., 5 Glebe Street, Stoke-on-Trent.

Manchester

Alec Watson & Mitchell Ltd., Market Street, Manchester.

2. OVERSEAS

Siebe Heinke equipment can be obtained through any of the following companies.

Aden

Sharp & Co., P.O. Building Office, No. 41 Stramer Point.

Argentine

David Hogg & Cia., Moreno 968, Buenos Aires.

Australia

R. Wallace Mitchell Pty. Ltd., 30 Abbotsford Street, North Melbourne, Victoria.

Bahrain

Gulf Safety Equipment Store, Municipality Road, Manama, Bahrain.

Belgium

Mechanical Equipment Co. S.A. 112, Rue de L'Instruction, Brussels.

Brazil

Gibbs, Williamson & Co. Ltd., Caixa Postal 3982, Rio de Janeiro.

Canada

Date Diving Equipment Co. Ltd., 383/5 Concord Street, Montreal.

Channel Islands

Fire Engineering Ltd., Middle Bank Chambers, St. Helier, Channel Islands.

Chile

Gibbs & Cia, S.A.C., Augustinas 1350, Casilla 67-D, Santiago.

Cyprus

G. S. Branco, P.O. Box 2, Famagusta.

Denmark

Alfred Raffel Ltd., Vodroffsvej 46, Copenhagen.

Egypt

The Technical Advisory Office, Farango, P.O. Box 850, Cairo, U.A.R.

Finland

Paavo W. Piril'a, E. Esplanadiatu, 24 a 28, Helsinki.

France

Etablissements Rotalex, 43 Boulevard Malesherbes, Paris.

Gambia

United Africa Mechanical and Electrical Ltd., P.O. Box No. 246, Shelley House, 3 Noble Street, E.C.2.

Ghana

United Africa Mechanical and Electrical Ltd., P.O. Box No. 246, Shelley House, 3 Noble Street, E.C.2.

Fed. Germany (West)

August Ahrendts G.m.b.h. Cranachstrasse 35, (24a) Hamburg - Gr. Flottbek.

Holland

N. V. v/h Gebr. Polak, Wijnhaven 21, Rotterdam.

Hong Kong

Jardine Engineering Corp. Ltd., 14/16 Pedder Street, Hong Kong.

- India**
Burn & Co. Ltd., 12 Mission Row,
Calcutta.
- Indonesia**
Britannia Far East Co. Ltd., E4, McDonald
House, Orchard Road, Singapore 9.
- Iraq**
Group Nine, 82 Wimbledon Hill Road,
S.W.19.
- Israel**
Chemicals and Technical Supplies
(Green) Ltd., P.O. Box 10, Tel Aviv.
- Italy**
Aziende Ruinite Minetto & Figlio,
Casella, Postala No. 1827.
- Japan**
Cory Bros. & Co. Ltd. 5-7 Great Tower
Street, E.C.3.
- Jugoslavia**
Generalexport, P.O. Box 223, Vasina
16-18, Belgrade.
- Katanga**
Alfred F. Bosshardt, 40 Blvd. Auguste
Reyers, Brussels 4.
- Kenya, Uganda, Tanganyka,
Zanzibar**
Anglo Baltic Corp. Ltd., P.O. Box 200,
Nairobi, Kenya.
- Kuwait**
Yousef Al Nasif & Co., P.O. Box 871,
Kuwait.
- Lebanon**
Robert Massamiri & Co., Boite Postale
3964, Beirut.
- Malaya**
W. H. Brennan & Co. Ltd., P.O. Box No.
625, Singapore.
- Singapore**
King & Co. Ltd., 23 Raffles Place,
Singapore.
- New Zealand**
S. Gordon Anderson Ltd., Andelect
House, 15 Mount Street, Auckland.
Sportex & Co. Ltd., 28 Safe Deposit
Buildings, High Street, Auckland.
- Nigeria**
United Africa Mechanical and Electrical
Ltd., P.O. Box No. 246, Shelley House,
3 Noble Street, E.C.2.
- Norway**
Jan Thommes Thomassen, Tollbod-
gaten 4, Oslo.
- West Pakistan**
Consolidated Products Co., 254 Ingle
Road, P.O. Box 83, Karachi, 1.
- Peru**
Gibb & Co. Ltd., Apartado No. 1227,
Lima.
- Poland**
Centromor, Mokotowska 49, Warsaw.
- Portugal**
Daun Limitada, Rua dos Fanqueiros
262, 10, Lisbon, 2.
- Portuguese E. Africa**
Messrs. Escal, Rue Alexandrie Mer-
cuculano No. 28, Caixa Postal 97a, Lou-
renco Marques, Mozambique.
- Portuguese W. Africa (Angola)**
Messrs. Comfabril, Caixa Postal 859,
Luanda, Angola.
- Rhodesia**
Reid Bros. (Rhodesia) Ltd., P.O. Box
2315, Salisbury, Southern Rhodesia.
- Thailand**
Anglo Thai Corporation, P.O. Box No.
328, Bangkok.
- Sierra Leone**
United Africa Mechanical and Electrical
Ltd., P.O. Box No. 246, Shelley House,
3 Noble Street, E.C.2.
- Seychelles Islands**
H. Savy, Esq., P.O. Box No. 20, Mahe,
Seychelles.
- Spain**
Sociedad Anonima Adaro, Gijon, Spain.
- Sweden**
Aktiebolaget Lyth, Dobelngatan 36A,
Stockholm.
- Syria**
Near East Resources (Syria) S.A., P.O.
Box 245, Khalid Ibn El-Walid Street,
Damascus.
- Trinidad**
R. Landry & Co. Ltd., 12/14 London
Street, Port of Spain, Trinidad.
- Turkey**
Thomas C. Tucker, P.O. Box 215,
Galata, Istanbul.

Branches of the B.S.A.C.

If none of these Branches are conveniently situated, prospective members may join the 'General Branch' administered from 25 Orchard Road, Kingston-on-Thames.

Aberdeen (67)

J. B. Gray, 26 Cairnery Road, Aberdeen.

Banbury (74)

P. W. Gilkes, 101 Middleton Road, Banbury, Oxon.

Barnsley (95)

E. Hemmingway, 2 Stainboro View, Ward Green, Barnsley, Yorks.

Bath (33)

A. D. Fleet, 24a Lowden Avenue, Chippenham, Wilts.

Bedford (89)

M. J. Carruthers, 'Round the Bend', Box End, Kempton, Bedford.

Belfast (30)

Miss P. McGuire, 104 Lansdowne Road, Belfast.

Bermondsey (42)

Mrs. V. Batey, 37 Belsize Avenue, London, W.3.

Birmingham A.1. (25)

Mrs. K. Mason, 39 Swindell Road, Pemmore, Stourbridge.

Blackpool (4)

Miss B. Roskell, 2 Pleasant Grove, Thornton, Cleveley, Lancs.

Bognor Regis (27)

Miss J. Wansbrough, 10 Den Avenue, Bognor Regis, Sussex.

Bolton (84)

G. W. Sumbler, 10 Derwent Close, Culchath, Lancs.

Bournemouth (6)

P. T. Smith, 19 Westover Road, Bournemouth, Hants.

Bradford (44)

P. K. Smith, 14 Ambleside Avenue, Bradford 9.

Bridgwater (128)

A. Gallagher, 5 Longstone Avenue, Bridgwater.

Brighton and Worthing (7)

Miss P. Lynch, 6 Tennyson Road, Worthing, Sussex.

Bristol (3)

W. J. Locke, 11 Mendip Road, Portishead, Nr. Bristol.

Bromley (26)

M. Bowler, 23 Birchwood Avenue, Beckenham, Kent.

Burnley and District (143)

Miss C. Sharples, 59 Clough Street, Burnley, Lancs.

Chelsea (45)

Miss D. Connell, 22 The Grampions, Western Gate, London, W.6.

Coventry (58)

Miss B. J. Kerridge, 51 Forfield Road, Coundon, Coventry.

Croydon (23)

B. C. Stroud, 16 Longmead Close, Caterham, Surrey.

Darwen (47)

J. Clements, 50 Winston Road, Blackburn, Lancs.

Derby (72)

Miss M. L. Hotson, 170 Western Road, Mickleover, Derby.

Doncaster (75)

M. Robinson, 37 Ferrers Road, Wheatley, Doncaster, Yorks.

Durham City (104)

T. Bell, 11 Holmsland Villas, Sacriston, Co. Durham.

East Anglia (11)

A. Notley, Fishley Hall, Acle, Norwich.

East Cheshire (100)

Mrs. B. Hyde, Rowley Hall Cottage, Kermingham, Holmes Chapel, Cheshire.

East Lancs (2)

W. D. Stephenson, Dale Edge, 2 Delamere Avenue, Whitefield, Manchester.

East London (15)

A. W. Haydon, 78 Grosvenor Park Road, London, E.17.

- Edinburgh** (21)
R. M. Bruce, 12 Mostyn Terrace, Edinburgh 9.
- Farnham** (85)
Mrs. J. A. Lodge, 36a Downing Street, Farnham, Surrey.
- Folkestone** (106).
D. Crown, Flat 1, 34 Alexandra Gardens, Folkestone, Kent.
- Forth Valley** (81)
H. G. Risk, 20 Strachan Street, Camelon, Falkirk, Stirlingshire.
- Furness** (61)
M. S. Fletcher, 7 Hare Lane, Barrow-in-Furness, Lancs.
- Grimsby** (37)
Mrs. P. Riley, 380 Hainton Avenue, Grimsby, Lincs.
- Guildford** (53)
K. G. Lloyd, Castle View, 6 Castle Avenue, Ewell, Surrey.
- Halifax** (48)
Miss M. S. Leach, 10 Bath Place, Woodside, Halifax, Yorks.
- Harlow** (141)
E. Lewis Christie, 12 Latton Green, Harlow, Essex.
- Harrogate** (39)
J. W. Inglis, 1 Forest Crescent, Forest Lane, Harrogate, Yorks.
- Harwich** (54)
J. E. Harvey, 5 Riverview, Ramsey Road Upper Dovercourt, Harwich, Essex.
- Holborn** (13)
D. R. Garner, 12 Ferncroft Avenue, London, N.W.3.
- Hounslow** (55)
M. H. Diprose, 22 Gilpin Crescent, Whitton, Middlesex.
- Huddersfield** (18)
K. Flinders, 15 Red Doles Road, Fartown, Huddersfield.
- Hull** (14)
J. D. Cumming, Sandys, Westfield Park, Brough, East Yorks.
- Ilford** (49)
A. S. Richardson, 19 Wards Road West, Ilford, Essex.
- Ilfracombe and North Devon** (86)
R. D. Booker, 19 Slade Road, Ilfracombe, Devon.
- Ipswich** (32)
A. R. Todd, 66 Beechcroft Road, Ipswich, Suffolk.
- Isle of Man** (76)
N. L. Mills, 34 Alberta Drive, Onchan, Isle of Man.
- Keighley** (117)
Mrs. F. B. Guest, 36 Garforth Road, Stockbridge, Keighley, Yorks.
- Kingston** (17)
Mrs. M. A. Freeth, 15 Gorse Road, Warren Estate, Frimley, Surrey.
- Leeds** (115)
Mrs. A. O'Donnell, 7 Kenneth Street, Leeds 11.
- Lincoln** (109)
A. C. Temperton, 7 St. Nicholas Street, Lincoln.
- London** (1)
P. Howden, 9 Holland Park, London, W.11.
- Lunesdale** (138)
Miss Irene Warbrick, 26 Aberdeen Road, Lancaster.
- Luton** (105)
M. J. Mathews, 5 Longcroft Road, Luton, Beds.
- Matlock** (121)
Mrs. M. Hallam, Baslow Cottage, Oker, Matlock.
- Medway** (59)
R. R. Alexander, 291 Sutton Road, Maidstone, Kent.
- Merseyside** (5)
J. J. Caraher, 36 The Meadow, Woodchurch, Wirral, Cheshire.
- Mexborough** (41)
Miss V. Whitehead, 10 Springfield Road, Kilnhurst, Nr. Rotherham, Yorks.
- Newport and Cardiff** (35)
Mrs. B. L. Forth, 'Shanief', 3 Church Road, Lisvane, Cardiff.
- Northampton** (13)
Mrs. J. W. Warren, The Lodge, Brixworth Hall, Brixworth, Northants.
- North Gloucestershire** (80)
W. F. Dancey, 6 Highfield Place, Coney Hill Road, Glos.
- North Norfolk** (111)
S/Sgt. Stanislav J. Kreck, Box 203, 420th Air Refueling Sqdn., R.A.F. Sculthorpe, Fakenham, Norfolk.

North Staffs (12)

Mrs. Whitehead, 5 Eleanor Place, Westlands, Newcastle, Staffs.

Nottingham (16)

A. D. Swain, 'Garthewen', Hoveringham, Notts.

Oxford (34)

Miss A. M. Symons, The Willow Studod, Ferry Hinksey, Oxford.

Penzance (116)

M. Lynch, 'The Pilots Lookout', The Wharf, Penzance.

Portland and Weymouth (40)

T. Thomas, Ship Inn, Upwey, Weymouth.

Port Talbot (99)

G. Wagstaff, 88 Tir Morfa, Port Talbot, Glam.

Reading (28)

G. O. Van Hoven, 'Tamameh', Chiers Drive, Drayton, Abingdon, Berks.

Rhyl and Prestatyn (79)

Mrs. June Williams, 25 Water Street, Rhyl, Flints.

Scarborough (83)

M. J. Pygas, 20 Broadway, Scarborough, Yorks.

Sheffield (36)

J. A. Tingle, 77 Thorpehouse Avenue, Sheffield 8.

Southend (22)

Mrs. E. R. Locks, 'Kynance', 23 Fairfield Road, Eastwod, Southend-on-Sea.

Southampton (139)

P. G. Sims, 399 Coxford Road, Lordswood, Southampton.

Southsea (9)

E. J. Towsø, 122 Castle Street, Portsmouth, Hants.

Start Bay (93)

J. Womsley, 2 Britannia Avenue, Townstal, Devon.

Swindon (46)

J. E. Hamilton, 11 Springfield Road, Swindon, Old Town, Wilts.

Tamworth (137)

J. R. Perks, 1 Castle View Park, Bonehill Road, Tamworth, Staffs.

Taunton (10)

G. C. Anderdon, Henlade House, Henlade, Taunton, Somerset.

Tees-Side (43)

D. Huppler, 153a Yarm Road, Eaglescliffe, Stockton-on-Tees.

Torbay (8)

D. M. F. Cockbill, 386 Teignmouth Road, Torquay, Devon.

Tyneside (114)

A. Brown, 7 Havelock Terrace, Washington, Co. Durham.

Wakefield (77)

S. Webb, 32 Sowood Avenue, Ossett, Yorks.

Willenhall (97)

R. Aston, 52 Bridge Street, Portobello, Willenhall, Staffs.

York (50)

M. Storey, 2 Forest Grove, Stockton Lane, York.

OVERSEAS BRANCHES**Jamaica (51)**

M. G. Lupton, 7 Somerton Avenue, Kingston 6, Jamaica, W.I.

Salisbury, Southern Rhodesia (63)

Mrs. L. Parrington, P.O. Box 3532, Salisbury, S. Rhodesia.

Sydney, N.S.W. (113)

Miss P. J. Hicklin, 76 Roseville Avenue, Roseville, Sydney, N.S.W. Australia.

Trinidad (129)

A. J. Fox, c/o Barclays Bank D.C.O., Marini Square, Port of Spain, Trinidad.

A list of depots where aqualung cylinders can be re-charged

Aberdeen	Dundee
Palmerston Road, Aberdeen.	Ballindean Road, Douglas and Angus.
Barrow-in-Furness	Glasgow
Bridge Road, Barrow-in-Furness.	Rosehill Works, Polmadie, Glasgow, S.2.
Belfast	Goole
Prince Regent Road, Castlereagh, Belfast.	Rawcliffe Road, Goole.
Billingham	Ipswich
Portrack Road, Billingham, Co. Durham.	Hadleigh Road, Ipswich, Suffolk.
Birmingham	Leeds
Lodge Road, Hockley, Birmingham 18.	Gelder Road, Leeds 12.
Brighton	Leith
Penny's Wharf, Southwick, Sussex.	Seafield Road, Leith, Edinburgh 6.
Bristol	London
Whitby Road, Brislington, Bristol 4.	98a West India Dock Road, E.14. East Lane, North Wembley, Middlesex. Tunnel Avenue, Greenwich, London.
Bromborough	Manchester
New Ferry, near Birkenhead.	Priestley Road (off Moorside Road).
Cardiff	Margam
Maes-y-Coed Road, Whitchurch, Cardiff.	Longlands Lane, Margam, Port Talbot, Glam.
Chester-Le-Street	Plymouth
Vigo Lane, Chester-Le-Street, Co. Durham.	Maxwell Road, Prince Rock, Plymouth.
Corby	Preston
Welby Road, Corby, Northamptonshire.	160 Marsh Lane, Preston, Lancashire.
Coventry	Rotherham
Terry Road, Coventry.	Bawtry Road, Brinsworth, Rotherham.
Crewe	Sheffield
Hungerford Road, Crewe.	Sheffield Road, Tinsley, Sheffield 9.
Derby	Southampton
Duke Street, Derby.	Millbrook, Southampton.
Dublin	Wolverhampton
Industrial Gases (I.F.S.) Ltd., 111 Pearse Street, Dublin.	Lower Walsall Street, Wolverhampton.

Dealers Name and Address

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PAAVO W. PIRILA

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